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(71)Applicant : NIPPON KAYAKU CO LTD

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(72)Inventor : ISHII KAZUHIKO
TOKUDA KIYOHISA
YOSHIDA KENJI
YOKOSHIMA MINORU

(54) ULTRAVIOLET-CURABLE RESIN COMPOSITION FOR INK JET RECORDING SYSTEM AND CURED PRODUCT THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain an ultraviolet-curable resin composition which can dispense with a resin for a recording medium for coating or recording and has improved application properties by mixing a specified (meth)acryloyl-containing compound with a monofunctional monomer and a photopolymerization initiator.

SOLUTION: Five (5) to 70wt.% compound having two or more (meth)acryloyl groups in the molecule, 10-85wt.% monofunctional monomer, 0.1-20wt.% photopolymerization initiator and optionally an epoxy resin, a colorant, a defoamant, a leveling agent, a polymerization inhibitor, etc., are dissolved, mixed and kneaded to obtain an ultraviolet-curable resin composition for an ink jet recording system. This composition is applied to a substrate with an ink jet printer to form a wet coating film having a thickness of 1-50µm, and the wet film is cured by ultraviolet irradiation to obtain a cured product.

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